

**AMENDMENT UNDER 37 C.F.R. 1.116  
EXPEDITED PROCEDURE  
EXAMINING GROUP 2178  
PATENT**

**Application # 10/666,227**

**Attorney Docket # 2002P15657US01 (1009-040)**

**AMENDMENTS**

**AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) A method for configuring HMI user screen navigation comprising the activities of:

providing an HMI screen navigation editor to a user;

via the HMI screen navigation editor, enabling the user to create a collection comprising a linked hierarchically organized plurality of HMI screen nodes;

responsive to a detected collision between a parent node of said linked hierarchically organized plurality of HMI screen nodes and ~~another a leaf node of said parent node~~, automatically adjusting a position of said parent node repeatedly until no collisions are detected, said collision detected based upon a calculated position of said parent node and a calculated position of said leaf node; and

rendering the collection to the user.

2. (Original) The method of claim 1, further comprising:

receiving from the user a specification of an HMI root screen node.

3. (Original) The method of claim 1, further comprising:

receiving from the user a specification of an HMI child screen node, the HMI child screen node a descendent of an HMI root screen node.

4. (Original) The method of claim 1, further comprising:

receiving from the user, a specification of a relationship between two of the plurality of HMI screen nodes.

5. (Original) The method of claim 1, further comprising:

receiving from the user a specification of an organization of the collection.

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6. (Original) The method of claim 1, further comprising:  
receiving from the user a specification of a hierarchy of the collection.
7. (Previously Presented) The method of claim 1, further comprising:  
automatically determining an arrangement of the collection.
8. (Original) The method of claim 1, further comprising:  
receiving from the user a specification of a size the plurality of HMI screen nodes.
9. (Original) The method of claim 1, further comprising:  
zooming a rendition of the plurality of HMI screen nodes.
10. (Original) The method of claim 1, further comprising:  
panning a rendition of the plurality of HMI screen nodes.
11. (Original) The method of claim 1, further comprising:  
collapsing a rendition of the plurality of HMI screen nodes.
12. (Original) The method of claim 1, further comprising:  
expanding a rendition of the plurality of HMI screen nodes.
13. (Original) The method of claim 1, further comprising:  
rotating a rendition of the plurality of HMI screen nodes.
14. (Currently Amended) The method of claim 1, further comprising:  
rendering a portion of ~~a~~the plurality of HMI screen nodes.

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15. (Original) The method of claim 1, further comprising:  
enabling the user to revise the collection.
16. (Original) The method of claim 1, further comprising:  
enabling the user to revise at least one of the plurality of HMI screen nodes.
17. (Original) The method of claim 1, further comprising:  
receiving a user specification of an attribute of an HMI screen node.
18. (Original) The method of claim 1, further comprising:  
receiving a user specification of an attribute of the collection.
19. (Currently Amended) The method of claim 1, further comprising:  
receiving from a ~~a~~the user a specification of a link between two HMI screen nodes.
20. (Currently Amended) The method of claim 1, further comprising:  
receiving from a ~~a~~the user a specification of a link from a first HMI screen node to a  
second HMI screen node, the second HMI screen node non-familial to the first HMI screen node.
21. (Original) The method of claim 1, further comprising:  
rendering a link between two HMI screen nodes;
22. (Original) The method of claim 1, further comprising:  
rendering a link from a first HMI screen node to a second HMI screen node, the second  
HMI screen node non-familial to the first HMI screen node.
23. (Currently Amended) The method of claim 1, further comprising:  
receiving from a ~~a~~the user a specification of a navigation control comprising at least one

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HMI screen link.

24. (Original) The method of claim 1, further comprising:

rendering a navigation control comprising at least one HMI screen link.

25. (Currently Amended) The method of claim 1, further comprising:

receiving from a ~~a~~the user a specification of a navigation control comprising at least one button.

26. (Original) The method of claim 1, further comprising:

rendering a navigation control comprising at least one button.

27. (Currently Amended) The method of claim 1, further comprising:

receiving from a ~~a~~the user a specification of a navigation control comprising at least one button, the at least one button comprising an HMI screen link.

28. (Original) The method of claim 1, further comprising:

rendering a navigation control comprising at least one button, the at least one button comprising an HMI screen link.

29. (Currently Amended) The method of claim 1, further comprising:

receiving from a ~~a~~the user a specification of a navigation control comprising at least one button, the at least one button comprising an HMI screen link, the at least one button activatable via a user-specified soft key.

30. (Original) The method of claim 1, further comprising:

rendering a navigation control comprising at least one button, the at least one button comprising an HMI screen link, the at least one button activatable via a user-specified soft key.

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31. (Currently Amended) The method of claim 1, further comprising:

receiving from ~~a~~the user a specification of a navigation control comprising at least one element activatable via a user-specified soft key.

32. (Original) The method of claim 1, further comprising:

rendering a navigation control comprising at least one element activatable via a user-specified soft key.

33. (Currently Amended) A machine-readable medium containing instructions for activities comprising:

providing an HMI screen navigation editor to a user;

via the HMI screen navigation editor, enabling the user to create a collection comprising a linked hierarchically organized plurality of HMI screen nodes;

responsive to a detected collision between a parent node of said linked hierarchically organized plurality of HMI screen nodes and ~~another~~a leaf node of said parent node, automatically adjusting a position of said parent node repeatedly until no collisions are detected, said collision detected based upon a calculated position of said parent node and a calculated position of said leaf node; and

rendering the collection to the user.

34. (Currently Amended) A device for providing a representation of user screens for an HMI comprising:

an HMI screen navigation editor operatively adapted to:

enable a user to create a collection comprising a linked hierarchically organized plurality of HMI screen nodes;

responsive to a detected collision between a parent node of said linked hierarchically organized plurality of HMI screen nodes and ~~another~~a leaf node of said parent node,

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automatically adjust a position of said parent node repeatedly until no collisions are detected, said collision detected based upon a calculated position of said parent node and a calculated position of said leaf node; and

render the collection to the user.

35. (New) The method of claim 1, further comprising:

receiving from the user, a user-drawn relationship indication line between two of the plurality of HMI screen nodes.

36. (New) The method of claim 1, further comprising:

automatically determining an arrangement of the collection based upon a user specified upper limit on inter-generational spacing.

37. (New) The method of claim 1, further comprising:

receiving a user specification of an attribute of an HMI screen node, the attribute adapted to change a background color of a screen.

38. (New) The method of claim 1, further comprising:

rendering a navigation control comprising a button adapted to display a previously viewed screen in a sequence of screens.

39. (New) The method of claim 1, further comprising:

rendering a navigation control comprising a button adapted to display a subsequent screen in a sequence of screens.